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	\$1382		26 September 1967
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	Contracting Off Post Office Box	c 6788	
	Fort Davis Stat Washington, D.		
	Subject:	Request for Funding	
	Dear Sir:	result of the activities	of this contractor in close
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DECLASS REVIEW by NIMA/DOD

Received 30ct 1967

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our facility, on another group of two machines to be delivered to these facilities upon acceptance of the first two, and thirdly, to be accomplished on the last machine at the same time they are accomplished on the 405AM machine after the delivery of the second two 405B machines.

The overrum tasks to be accomplished are as follows:

- a. Fabricate new mounting mechanisms for improved operation of negator.springs.
 - b. Redesign of the curtain assembly for improved operation.
- c. Reduce warm-up time (ready light) for power turn-off (inadvertent) to minimize stabilizing time rather than full 45 minute warm-up upon initial turn-on.
- d. Replacement of nameplate on front panel from 3/8 amp to 3/4 amp.
- e. Update manual of operating procedures to the equipment's latest configuration.
- f. Update drawings as provided by the contract to depict final configuration.

The following added tasks, applicable to the 405B machines, are herewith provided with cost analyses noted below.

Exhibit "B" covers the following added tasks,

- a. Modification of the head rest structure for improved support.
- b. Providing an access cover for ventilation and viewing of the pump assembly (water level).
- c. Access cover in machine sheet metal cover for adjustment of X axis interferometer.
- d. Access cover in sheet metal cover and headrest support for adjustment of Y axis interferometer.
- e. Wiring and placement of test points on front panel of digitizer for checking voltage level on Schmitt trigger circuits. This



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requires relocation of high voltage potentiometers to the front panel. Study has shown that the high voltage potentiometer value and resolution are correct as designed, and we recommend no change.

f. Installation of chassis guide rails for easier access to both digitizer chasses.

Exhibit "C" covers the cost of adding a knee guide to the center opening of the 405B machines to prevent the operator's knees from touching the working table.

Exhibit "D" covers supplying of an alignment microscope which can be used with any of the interferometers provided on the 405B or 405A contracts. This microscope is used to align the interferometers with the basic working tables. It is an item which is also offered as an option to our commercial interferometer customers.

Exhibit "E" covers the cost for conducting a training program at our facility for your calibration and maintenance personnel.

A description of the training program is contained in Exhibit "F". It is our suggestion that this training program be conducted during the system test phase when the second two 405 machines are modified and assembled in our plant.

Exhibit "G" contains a list of our recommended spare parts for maintaining both the 405B and 405AM machines, with unit prices and totals applicable to quantity recommended.

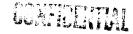
Exhibits "H-1" and "H-2" cover costs to modify the 405AM machine to make it equal to the 405B machines with the added tasks as recommended above. (Exhibits H-1 and H-2 relate respectively to Exhibits B and C.) In addition to the added tasks as described above, the following tasks will also be accomplished.

- a. Modification of the microscope focus mechanisms equivalent to the 405B to provide improved reliability and minimize backlash. If a new design is desired, a separate quotation will be prepared.
- b. Modification of the general illumination to improve the cut-off of the light on the chip format.

It should be pointed out that the spare parts list, the alignment microscope, and the training program suggested above are equally applicable to the 405AM.

Approved For Release 2002/06/17 : CIA-RDP78B04747A001500030015-7

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Certain of the add accomplished on the two 4051 these added tasks have alreat remaining tasks on the 405AM facility. It is our underst the proper utilization of the accordingly taken this action	machines dy been in will be a anding the	in our posse satalled on a accomplished at these act: at by your pa	ession, and so the 405AM mack upon its retuions are essen ersonnel, and	ome of tine. The tra to our stial to
As pointed out abo	we, action	to improve	the equipment	has
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405B - EXHIBIT F

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TRAINING PROGRAM

For three (3) or four (4) customer trainees -

- I Lecture Sessions
 - 1. Theory
 - 2. Operation
 - 3. Maintenance
 - a) 405 mechanisms
 - b) Interferometer Optics-Tracking
 - c) Electronic System
- II Shop Sessions - using two (2) 405B Machines
 - 1. Standard daily and weekly Test Procedures
 - 2. Standard weekly Adjustment Procedure
 - 3. Special repeatability measurement with grid.
 - 4. Alignment and Tracking on supplied Interferometer on test bench. 25X1A
 - 5. Electronic Adjustment, Maintenance, and Trouble Shooting (using _____supplied System)

- a) Photomultiplier
- b) Preamplifiers
- c) Difference amplifiers
- d) Schmitt triggers
- e) Pulse generators
- f) Cooling System
- g) Automatic compensator

Exhibit "G"

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405B SPARE PARTS LIST Interferometers - 12 Units

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OUANTITY PER 'UNIT	RECOM.	PART NO.	DESCRIPTION
1	2	403291	Lamp Hous. Ass'y
3	6	106358	Phototube IP21
· 3	6	106359	Tube (Ampl.)
1	6	106768	Tube (Oscil.)
3	40	106292	Fuse, 3A, Slo Blo
1	20	111573-3	Fuse, 1/4B, Slo Blo
2	10	108825	Lamp Neon
2	4	113298	Motor, 1 RPM
2	6	109164	Relay, Ultrasensit.
1	4	113301	Relay, Time Delay
. 2	6	113299	Potentiometer
4	8	111501	Transistor
2	4	113296	Capacitor
2	4	111606	Relay
2	4	111623	Heater Cartridge
2	4	404509	Fan, Muffin
2	4	404816	Pump, Modified
2	6	107902	Klipcell
1	6	108069	Transistor, 2N2646
6	12	106327	Transistor, 2N404
9	30	106328	Transistor, 2N428
1	6	108070	SCR, 2N2323
8	24	107234	Diode, 10D10
6	12	108071	Diode, IN1692
8	24	106326	Diode, IN626
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Exhibit "G"

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405B SPARE PARTS LIST

Basic Machine - 6 Machines

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QUANTITY VIOLENT	RECOM OTY.	PART NO.	DESCRIPTION
1.	6	106553	Belt, Spindle Tape \$
3	6	106913	Valve Solenoid
4	12	107031	Capacitor
2	6	107420	Muffin Fan
2	6	108090	Motor Drive
12	24	108650	Micro Switch
12	24	108651	Actuator, Switch
2	6	108653	Illuminator
4	12	108654	Capacitor
4	12	108655	Disc Motor
2	36	108659	Lamp (Illum.)
2	36	108660	Lamp (High Inten.)
1	3	108698	Propeller Fan
1	. 3	108802	Transformer
2	6	108803	Rotary Switch
8	12	10 880 5	Switch, Toggle
2	6	108806	Switch, Toggle
2	6	10880 7	Rheostat
1	3	108808	Circuit Breaker
1	10	108825	Neon Lamp
1	3	108889	Foot Switch
2	6	108943	Rocker Switch
4	12	108944	Micro Switch
4	12	108945	Roller Leaf
1	20	108946	Fuse, 10A, Slo-Blo
1	20	108947	Puse, 1-1/4A, Slo-Blo
3	40	108949	Fuse, 3/8A, Slo-Blo
· 2	20	108951	Fuse, 3/4A, Slo-Blo

Exhibit "G"

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405B SPARE PARTS LIST

Basic Machine - 6 Machines

25X1A

QUANTITY PER /UNIT	RECOM. QTY.	PART NO.	DESCRIPTION
2	6	109087	Belt, Drive
1	6	109105	Rocker (Y)
1	6	109106	Rocker (X)
2	3	601438	Mirror
2	3	601810	Platen, Vacuum
1	3	601858	Filter, RF Ass'y
1	3	701021	Plate, Support
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